

Title (en)
SYSTEM AND METHOD FOR REGENERATING ABSORBER BED FOR DRYING COMPRESSED HUMIDIFIED HYDROGEN

Title (de)
SYSTEM UND VERFAHREN ZUR REGENERIERUNG EINES ABSORBERBETTS ZUR TROCKNUNG VON KOMPRIMIERTEM BEFEUCHTETEM WASSERSTOFF

Title (fr)
SYSTÈME ET PROCÉDÉ DE RÉGÉNÉRATION D'UN LIT D'ABSORBANT POUR LE SÉCHAGE D'HYDROGÈNE HUMIDIFIÉ COMPRIMÉ

Publication
EP 3164357 B1 20200108 (EN)

Application
EP 15745291 A 20150630

Priority
• US 201462020475 P 20140703
• US 2015038550 W 20150630

Abstract (en)
[origin: US2016001215A1] A system for compressing and drying hydrogen is provided. The system may have a humidifier configured to receive and humidify a concentrated hydrogen stream and produce a first humidified hydrogen stream. The system may also have a compressor configured to receive and compress the first humidified hydrogen stream, and produce a pressurized humidified hydrogen stream. The system may further have a dryer including a first bed configured to in production mode receive the pressurized humidified hydrogen stream, absorb at least a portion of the humidity, and produce a product hydrogen stream. The first bed may further be configured to in regeneration mode receive a portion of the concentrated hydrogen stream to regenerate the first bed, and produce a second humidified hydrogen stream.

IPC 8 full level
C01B 3/56 (2006.01); **B01D 53/047** (2006.01); **B01D 53/26** (2006.01); **C25B 1/12** (2006.01)

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